

# ARG43155 anti-GADD34 antibody

Package: 100 μl Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes GADD34
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	GADD34
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 375-674 of Human GADD34 (NP_055145.3).
Conjugation	Un-conjugated
Alternate Names	Growth arrest and DNA damage-inducible protein GADD34; Protein phosphatase 1 regulatory subunit 15A; Myeloid differentiation primary response protein MyD116 homolog; GADD34

#### **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recomme should be determined by the scie	nded starting dilutions and the optimal dilutions or concentrations ntist.
Positive Control	Jurkat	
Observed Size	~ 100 kDa	

# Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol	PPP1R15A
Gene Full Name	protein phosphatase 1, regulatory subunit 15A
Background	This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The induction of this gene by ionizing radiation occurs in certain cell lines regardless of p53 status, and its protein response is correlated with apoptosis following ionizing radiation. [provided by RefSeq, Jul 2008]
Function	Recruits the serine/threonine-protein phosphatase PP1 to dephosphorylate the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'. [UniProt]
Calculated Mw	73 kDa
PTM	Phosphorylated at multiple Ser/Thr residues. Phosphorylated on tyrosine by LYN; which impairs its antiproliferative activity. Phosphorylation at Tyr-262 enhances proteasomal degradation, this position is dephosphorylated by PTPN2.
	Polyubiquitinated. Exhibits a rapid proteasomal degradation with a half-life under 1 hour, ubiquitination depends on endoplasmic reticulum association. [UniProt]
Cellular Localization	Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associates with membranes via an N-terminal amphipathic intramembrane region. [UniProt]

#### Images



#### ARG43155 anti-GADD34 antibody ICC/IF image

Immunofluorescence: L929 cells stained with ARG43155 anti-GADD34 antibody at 1:100 dilution.



#### ARG43155 anti-GADD34 antibody WB image

Western blot: 25  $\mu g$  of Jurkat cell lysate stained with ARG43155 anti-GADD34 antibody at 1:3000 dilution.